

Annuity Problems p509 -517

TI83 -TVM Solver Instructions on p568-573

Work Period

p498-500 q. 6,8,9,11,14

p506-508 q. 4,5,6,9,12

p517-519 q. 4,5,6,7,8,9,10,13

May 20-8:42 AM

p 499 #6      \$500,000 - 2 yrs from now

450,000 - house

900 biweekly 10.5%  
 $n = 26 \times 2 = 52$   
 $i = 10.5\% = 0.105/52 = 0.002019$

$$A = \frac{R[(1+i)^n - 1]}{i}$$

$$= \frac{900[(1+0.002019)^{52} - 1]}{0.002019}$$

$$= \frac{900[(1.002019)^{52} - 1]}{0.002019}$$

$$= \frac{900[1.2307 - 1]}{0.002019}$$

$$= \frac{900[0.2307]}{0.002019}$$

$$= 51,908.05$$

May 20-9:48 AM

p 499 #9       $R=100$   
 $i = 0.04/2 = 0.02$   
 $n = 21 \times 2 = 42$

$$A = \frac{R[(1+i)^n - 1]}{i}$$

$$= \frac{100[(1.02)^{42} - 1]}{0.02}$$

$$= \frac{100(2.29 - 1)}{0.02}$$

$$= \frac{100(1.29)}{0.02}$$

$$= \frac{129}{0.02}$$

$$= 6496.22$$

$i = 0.04/2 = 0.02$   
 $n = 4 \times 2 = 8$   
 $P_0 = 6496.22$

$$A = P_0(1+i)^n$$

$$= 7599.64$$

May 20-10:03 AM

p 499 #11

May 25-9:50 AM

May 31-9:48 AM